

SOV/149-58-4..16/26

Mineralogy of the Products of Smelting Gold-bearing Ores with  
Certain Concentrates of East Siberian Origin

microscope in the slag or in the matte inclusions.  
There are 3 figures and 3 Soviet references.

ASSOCIATION: Severokavkazskiy gornometallurgicheskiy institut.  
Kafedra poleznykh iskopayemykh i poiskovo-razvedochnogo  
dela (North Caucasian Mining-Metallurgical Institute,  
Chair of Mineral Resources and Prospecting)

SUBMITTED: 16th December 1957.

Card 4/4

18.5000

75376  
30V/149-2-5-2/32**AUTHORS:** Baklakov, M. S. (Deceased), Khetagurov, G. V.**TITLE:** Geological Presumptions for Depth Research of Lead-Zinc Ores in Arkhon-Unal Interfluvial Area of Northern Ossetia**PERIODICAL:** Izvestiya vysshikh uchebnykh zavedeniy. Tsvetnaya metallurgiya, 1959, Vol 2, Nr 5, pp 6-11 (USSR)**ABSTRACT:** Materials available at present for the study of Arkhon-Unal interfluvial area lead to the conclusion that serious prospecting work must be done there. The following considerations support this conclusion. Most favorable formations for ore concentration are granites. Their presence under a layer of albitophyres is unquestioned. Quartz veins with visible presence of lead and zinc minerals are numerous. They are probably outlets of deeper ore bodies embedded in granite. The importance of these veins and zones is evident. The existence of such blind ore bodies as the Vertikal'naya vein and

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others in the Arkhon and Kholstinkiy fields, does not exclude but rather confirms the probability of veins in other areas of the interfluvial tract. The basic structures controlling ore formations are the Arkhon-Unal and Luar breaks, from which most of the known ore veins radiate to the north and to the south. The probability of finding new veins is greater at the location of the bends. In the Arkhon field there is every indication of additional blind ore bodies to the southeast of the entrance to tunnel Nr 15; their probable location will be under the shales in the albophyres and granites. Here the Arkhon-Unal break makes an abrupt turn from an east-west to a north-west direction. In 1955, Baklakov, M. S., suggested piercing a tunnel for a more complete depth study. Geological surveys are not easy to conduct, owing to the presence of forests and heavy deposits of late formations that cover ore bodies. The extent of excavations and the number of metallometric observations, slide tests, and

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hydrochemical studies of water sources will be considerable. In 1959 the Glavgeologiya (Chief Geological Administration) of RSFSR assigned to the Sadonsk Mining Administration the necessary means for piercing an east-west tunnel beginning from the Arkhondor River near the Arkhon-Unal break with the aim of crossing vein Nr 15 of the Arkhon field at a level of 1,100 meters, and other ore bodies of the synclinal bowing, to emerge into the Kholsttin area. There is 1 figure; and 3 Soviet references.

SURMITTED: April 2, 1959

Card 3/3

RASHIN, G.A.; KHETAGUROV, G.V.

Mineralogical and petrographic study of slags from lead smelting. Isv.vys.ucheb.nav.; tsvet.met. 2 no.6:112-120.  
'59. (MIRA 13:4)

1. Severokavkazskiy gornometallurgicheskiy institut. Kafedra poleznykh iskorayemykh i poiskovo-razvedochnogo dela.  
(Slag--Analysis)

KHETAGUROV, M. G.

25942. Raschet izolyatsionnykh konstruktsiy refriżeratornykh tryumov metodom elektro-teplovых analogiy. Trudy Leningr. in-ta inzhenerov vod. transporta, vyp. 15, 1949, s. 81-96.

SO: Knishnaya Letopis', Vol. 1, 1955

~~KHETAGUROV, M.G.; SURVILLO, V.L., otvetstvennyy reaktor; VOLCHOV, K.M.,~~  
~~tekhnicheskiy redaktor~~

[Elements of auxiliary machinery used on ships. Atlas (supplement  
to the book)] Konstruktsii sudovykh vspomogatel'nykh mehanizmov,  
Atlas (prilozhenie k knige) Leningrad, Gos. izd-vo vodnogo  
transporta, Leningradskoe otd-nie, 1954. 112 p. (MLRA 7:11)  
(Marine engineering)

KHETAGUROV, Murat Gavrilovich; SELIVANOV, K.I., redaktor; SANDLER, N.V.  
redaktor izdatelstvo; PETERSON, M.M., tekhnicheskiy redaktor

[Regrigeration on ships] Sovremennye sudovye kholodil'nye  
ustanovki. Leningrad. Izd-vo "Morskoi transport," 1956  
133 p. (MLRA 10:5)  
(Refrigeration on ships)

KHITAGUROV, Murat Gavrilovich; SELIVANOV, K.I., retsenzent; SURVILLO, V.L.,  
otvetstvennyy redaktor; SANDLER, N.V., redaktor izdatel'stva;  
PETERSON, M.M., tekhnicheskiy redaktor

[Ship auxiliary mechanisms, equipment and systems] Sudovye vspomoga-  
tel'nye mekhanizmy. Ustroistva i sistemy. Leningrad, Izd-vo  
"Morskoi transport," 1956. 473 p. (MLRA 10:4)  
(Ships--Equipment and supplies)

KHETAGUROV, Murat Gavrilovich; SELIVANOV, K.I., kand.tekhn.nauk, spetsared.;  
SANDLER, N.V., red.izd-va; KOTLYAKOVA, O.I., tekhn.red.

[auxiliary marine machinery and systems] Sudovye vapomogatel'nye  
mekhanizmy i sistemy. Izd.2.. perer. i dop. Leningrad, Izd-vo  
"Morskoi transport," 1959. 411 p.  
(Marine engineering)

KHETAGUROV, Murat Gavrilovich; SELIVANOV, K.I., spets. red.; SANDLER,  
N.V., red. izd-va; DROZHZHINA, L.P., tekhn. red.

[Insulation of ship cold-storage rooms; theory and design]  
Izoliatsiya sudovykh kholedil'nykh pomeshchenii; teoriia i  
raschet. Leningrad, Izd-vo "Morskoi transport," 1961. 177 p.  
(Refrigeration on ships) (MIRA 15:2)  
(Cold storage--Insulation)

ACC NR: AM6031228

Monograph

UR/

Khetagurov, Murat-Aleksandr Gavrilovich

Marine auxiliary mechanisms and systems. (Sudovyye vspomogatel'nyye mekhanizmy i sistemy) 3d ed., rev. and enl. Moscow, Izd-vo "Transport", 1966. 375 p. illus., biblio. 3 fold charts (in pocket). Errata slip inserted. 5000 copies printed. Textbook for students at institutions of higher learning specializing in ship mechanics.

TOPIC TAGS: marine engineering, marine equipment

PURPOSE AND COVERAGE: This textbook is intended for students specializing in ship mechanics at higher marine engineering schools. Individual chapters can be used by design, technical, and managerial staff, as well as for ship mechanics in the industry. The book describes standard designs and diagrams of auxiliary mechanisms and systems, including basic design theory and operation. This edition gives less attention to theoretical problems but rather concentrates on operational technology and safety measures. Gratitude is expressed to V. F. Kravchuk and A. A. Aksel'band. There are 11 references, all Soviet.

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SUB CODE: 13/

SUBM DATE: 21Apr66/

ORIG REF: 011/

Card 2/2

6-58-2-12/21

AUTHOR: Khetagurov, N. I.

TITLE: Alpine Training of Field Workers of Aerogeodetic  
Institutions (Ob al'pinisticheskoy podgotovke)  
polcovykh rabotnikov aerogeodezicheskikh predpriyatiy)

PERIODICAL: Geodeziya i Kartografiya, 1958, Nr 2, pp. 43 - 45 (USSR)

ABSTRACT: In May 1957 the Main Office for Surveying and Cartography supported by the VTsSPS organized and carried out the alpine training of engineers, technicians and workers of some groups of the aero geodetic pools in Central Asia, Southern Caucasia and Kazakhstan in the mountain camps of the voluntary sports club "Burevestnik". The chiefs of the above sports club the coaches Kaspin and Kropf suggested a special program for alpine training considering the special conditions at the carrying out of topographic surveying. This program aimed at the better control of movements and at safety for work in mountains and in the crossing of rivers. Topographic and geodetic surveyors learned how to climb on rock, ice and snow,

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Alpine Training of Field Workers of Aerogeodetic Institutions

as well as how to erect camps on different conditions. They also studied radio engineering. Training was carried out in the well known high mountain camps Dombay, Varzob, Ala-Archa and Kok-Bastau (Dombay in the Domby-Ul'gen Massive in Abkhazia-Northwestern Caucasus; Varzob about 40 km north of Stalinabad, capital of Tadzhikistan; Ala-Archa, west of the Issyk-Kul' Lake in Kirgizistan; remarks by the reviewer Kam.). At present the staff of the pools have complete alpine equipment, which, however, is not always used correctly. There is 1 figure.

1. Geodesics    2. Personnel--Training

Card 2/2

KHETAGUROV, Nikolay Iosifovich; D'YAKOV, G.S., red.; KHRONCHENKO, F.I.,  
red.izd-va; ROMANOVA, V.V., tekhn.red.

[Booklet on safety measures for geodesists and topographers  
working in high-mountain regions] Pamiatka po tekhnike bez-  
opasnosti dlia geodezistov i topografov pri rabotakh v vysoko-  
gornykh raionakh. Moskva, Izd-vo geodes.lit-ry, 1960. 31 p.

(MIRA 13:11)

(Surveying--Safety measures) (Mountaineering)

SHISHKIN, V.N.; KHETAGUROV, N.I., red.; INOZEMTSEVA, A.I., red.  
izd-va; SHLENSKIY, E.A., tekhn. red.

[Construction of geodetic signals] Postroika geodezicheskikh  
znakov. Moskva, Geodezizdat, 1953. 156 p. (MIRA 15:7)  
(Triangulation signal towers)

KHETAGUROV, Nikolay Iosifovich; YUROV, S.I., red.; SAVRANSKAYA, L.A.,  
red. izd-va; VORONOVA, V.V., tekhn. red.

[Manual on safety measures for geodesists and topographers  
working in deserts] Pamiatka po tekhnike bezopasnosti dlia  
geodezistov i topografov pri rabotakh v pustyniakh. Moskva,  
Geodezizdat, 1961. 36 p. (MIRA 15:7)  
(Surveying—Safety measures)

ZHILIN, V.G., inzh.; Prinimali uchastiye: DUBROVSKIY, V.V.;  
KHETAGUROV, N.Ts.; OBOLENSKIY, P.A.; UGORTS, I.I.,  
Inzh., red.; SIRINOV, A.D., red.

[Design of large thermal electric power plants; general  
problems] Proektirovanie teplovых elektrostantsii bol'shoi  
moshchnosti; obshchie voprosy. Moskva, Energiia,  
1964. 375 p. (MIRA 18:2)

KHETAGUROV, V. A.

"Wild fruit trees of the South Ossetian Autonomous Oblast and their utilization." Moscow Order of Lenin Agricultural Academy imini K. A. Timiryazev. Moscow, 1956. (Dissertations for the Degree of Doctor in Agricultural Science)

So: Knizhnaya letopis', No. 16, 1956.

KHETAGUROV, Ya. A.

Khetagurov, Ya. - "Method of calculating certain parameters by the mechanical observation system," Trudy Studentch. nauch.-tekhn. o-va (Moscow technical college im. Bauman), 2, 1949, p. 57-66

SO; U-4355, 14 August 53, (Letopis zhurnal 'nykh Statey, No. 15, 1949.)

KLETAGURCV, Ya. A.

"A Numerical System for the Control of a Machine Tool."

report presented at the Conference on Automation and Computation Engineering,  
Moscow, 5-8 March 1957. Organized by All Sci. Eng. and Tech. Society for  
Apparatus Building.

21 (0), 24 (0) Tregunov, G. A.

SOV/RS-7-2-10/24

**TITLE:**

Scientific Conference of the KIPT (Nauchnaya konferentsiya nauchno-

**PUBLICATION:**

Akademika energiya, 1959, Vol. 7, No. 2, pp. 176-177 (in Russian).

**ABSTRACT:**

The yearly scientific meeting was held from 17 April to 15 May 1959 in the Moscow Polytechnic Institute. More than 600 participants from 100 different institutes attended the 2 Plenary and 16 sectional conferences. A total of 168 lectures were held. The following lectures are specially mentioned: N. K. Sazonov-Daly on the thermo-nuclear experiments; J. G. Dally on the physical foundations of molecular generators and amplifiers; A. I. Lopatin on the construction of a fast reactor; I. I. Zaitsev and M. S. Miroshnikov on the possibility and nature of resonance bursts of the nuclei; A. S. Komarov on strong electromagnetism; gravity waves; V. F. Gor'kov on levels which are excited winds in the nucleus itself; and methods of comprehending them; I. A. Vinogradov on the analysis of the possible experiments for the determination of the spectrum of liquids and gases; A. I. Planer-Kobayashi on the spectrum of liquids and instruments for measuring the pressure (8000-10000 atm) and its dependence on absorption curves; V. P. Kostylev and O. V. Danilevina on new applications possibilities of lasers; electron accelerators with microwave waves; P. L. Sazanov, D. B. Shcherbinin and A. I. Zubakov on the theory of the electron capture under beta-ray conditions of the accelerating gap; V. A. Sazanov and J. A. Tregunov on magnetic focusing in linear electron accelerator; G. A. Yalanskii, P. N. Likhachev, N. N. Kuznetsov, Yu. M. Matlin on the 3 Gev linear accelerator of the KIPT; and I. F. Sizunov on the 1 Gev linear accelerator of the KIPT. D. S. Fedorov on examination of the electron movement in the vapor chamber; O. A. Val'dine on multiple scattering of electrons; V. V. Churkin on examination of the electron movement in the vapor chamber; O. S. Podolyayev on calculation methods and theory on impulse method for measuring the scattering field; O. A. Kostylev on impulse method for measuring the heat conduction properties of liquids and the theory of this method; I. V. Churkin on the resistive field method; N. A. Churkin on heat transmission heterodyne on heat transmission loop in a circular space; V. V. Kostylev on special conditions of circulating mercury; V. V. Kostylev on examination of the electron movement with a flat probe; O. A. Kostylev on construction of an impulse transformer for instruments and semi-conductor elements; N. A. Churkin on methods of measuring the characteristics of electron scattering; V. V. Kostylev on the element system for a unitary impulse; V. V. Kostylev on multiple control of the parameters of technological processes; P. I. Ponoz on analysis of several systems with which physical apparatus can be automatically controlled; Yu. I. Sushchikov on a method to calculate the quality of linearity; G. A. Leont'ev and A. I. Tregunov on examination of the lecture method of reflecting electron and characteristics of the material obtained; P. I. Grishko on examination of carbon fibers and G. G. Rybachuk on examination of other elements in electron microscopy and its alloys by use of electron radiography; G. B. Fedorov on determination of the sublimation heat of sintering materials by radioactive indicators; and G. B. Fedorov and A. M. Chirikov on determination of the diffusion coefficients of chromium, nickel, iron and chromium in nickel steels. The literature for all these lectures will be published by the KIPT in a special issue.

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KHETAGUROV, Ya.A.

ALEKPEROV, V.P., inzh.; ATOVMYAN, I.O., inzh.; ZUYEV, V.I., inzh.; KAVUN, Ye.S., kand.tekhn.nauk; KOGAN, B.Ya., kand.tekhn.nauk; KOPAY-GORI, P.N., kand.tekhn.nauk; KULAKOV, A.A., inzh.; LEBEDEV, A.N., kand.tekhn.nauk; PAPERNOV, A.A., doktor tekhn.nauk; PEL'POR, D.S., doktor tekhn.nauk; PLOTNIKOV, V.N., kand.tekhn.nauk; ROZSKIY, Yu.Ye., kand.tekhn.nauk; SOLDOVNIKOV, V.V., doktor tekhn.nauk; TOPCHEYEV, Yu.I., kand.tekhn.nauk; ULANOV, G.M., kand.tekhn.nauk; SHRAMKO, L.S., kand.tekhn.nauk; DOBROGURSKIY, S.O., doktor tekhn.nauk, retsenzent; KAZAKOV, V.A., kand.tekhn.nauk, retsenzent; PETROV, V.V., kand.tekhn.nauk, retsenzent; KHAVKIN, G.A., inzh., retsenzent; SOLODOVNIKOV, V.V., prof., doktor tekhn.nauk, red.; VITENBERG, I.M., kand.tekhn.nauk, nauchnayy red.; MOLDAVER, A.I., kand.tekhn.nauk, nauchnayy red.; KHETAGUROV, Ya.A., kand.tekhn.nauk, nauchnayy red.; POLYAKOV, G.F., red.izd-va; KONOVALOV, G.M., red.izd-va; SOKOLOVA, T.F., tekhn.red.

[Fundamentals of automatic control] Osnovy avtomaticheskogo regulirovaniia. Vol.2. [Elements of automatic control systems] Elementy sistem avtomaticheskogo regulirovaniia. Pt 2. [Compensating elements and computer components] Koryktiruiushchie elementy i elementy vychislitel'nykh mashin. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry. 1959. 453 p. (MIR 12:4) (Automatic control) (Electronic apparatus and appliances) (Electronic calculating machines)

KHETAGOROV, Y.A.

PHASE I BOOK EXPIRATION SOV/2363

25(1)

Akademiya nauk SSSR. Komissiya po tekhnologii mashinostroyeniya  
Automatizatsiya mashinostroitel'nykh protsessov. t. III. Pt. 1.  
Upravleniye rabochimi mashinami i avtomatika protsessov. vols. 2-3:  
Processes. Vol 2: Drives and Control Systems for Process  
Machinery. Moscow, Izd-vo AN SSSR, 1959. 570 p. Errata slip  
Inserted. 5,000 copies printed.

Ed. V.I. Dikushkin, Academikian Ed. of Publishing House: D.M.  
Editor: V.P. Tikhonov.

PURPOSE: This book is intended for engineers dealing with automation of various machine-building processes.

COVERAGE: This is the second volume of transactions of the second Conference on Overall Mechanization and Automation of Manufacturing Processes Held September 25-29, 1956. The present volume consists of three parts, the first dealing with automation of automatic measuring methods. The subjects discussed include automatic control of dimensions of machined parts, inspection devices for automatic production lines, unprogrammed inspection devices, application of electronic, in automatic linear measuring processes, and machines for automatic inspection of bearing races. The second part deals with automatic drives and control systems for process machinery, including application of digital computers in the control of metal-cutting machine tools, reliability of relay systems, application of gas-tube frequency converters in the control of induction motor speeds, magnetic amplifiers and their use in automatic systems, hydraulic drives, and ultrasonic vibrators. Part three deals with mechanisms of automatic machines and automatic production lines. The subjects discussed include linkages, indexing, and Geneva-wheel-type mechanisms, friction drives, automatic loading devices, diaphragm-type pneumatic drives, various auxiliary devices for automatic production lines, and methods of design and accuracy of gears. No personalities are mentioned. There are no references.

CONTRIBUTORS: Ye. A. Prokof'yev. /Deceased/. Automatic Control of Dimensions in Machine Building 3

A. Alibulatov, A.H. Determining Optimum Conditions for Controlling the Mean Diameter of Machined Parts

Egorovich, E.G. Lenin priznaniya/. Inspection Methods for Automatic Production Lines 29

Dorofatov, Ye. B. Standard Devices for Active Control 39

Vilkhamov, V.P. Application of Electronics in Automating Liner Measuring Methods 45

Klyusov, I.A. Metrolitschi i Statisticheskaya chekha v sovremennoy avtomaticheskoy inspekcii i sortirovke 53

Sil'chenko, G.A., Ye. M. Drozdov. Experience Gained in Developing Machines for Automatic Inspection of Bearing Races 62

Hartson, P.M. Digital Computers in Automatic Control of Processes 75

Tolstunov, Ye. A. Some Problems Concerning Digital Control of Metal-cutting Machine Tools 88

Zubarnik, Yu.O. and I.A. Vul'fman. Designing Digital Program Control Systems for Machine Tools 98

Soldatenko, R.D. Problems Concerning the Reliability of Relay Systems 107

Sel'dinov, V.A. Application of Gas Tube Frequency Converters in the Control of Induction Motor Speeds by the Frequency Method 117

Mardas, V.A. Controlled Electric Drive for Metal-cutting Machines 203

Lazebnik, M.I. Development of the Theory of Mechanics of Automatic Machines Card 5/7

KHEIAGYEOV, Ya. A.

PLATE I BOOK EXPLOITATION

SOP/2675

No. 1. Book "Fundamentals of Digital Computers".

Physical-Mathematical Institute, F. E. Dzerzhinsky  
Application. Moscow, 1959. 370 pages. (Collection "Fundamentals and Trends  
in Non-Practical Mathematics". Series: Chelobitnoye  
Printed. No. 1000 copies.)

Ed. (Title page); S. A. Lebedev, Academician; Ed. (Inside book); V.I. Savchenko;  
Tech. Ed.; G. I. Matveyev.

PURPOSE: This collection of articles is intended for scientific, engineering,  
and technical personnel engaged in research, design and operation of digital  
and analog computers. It may also be used by students of those specialties  
in computers.

CONTENTS: The article presents fundamentals of digital computers, their elements  
and units such as arithmetic units, internal and external memory and control  
devices. They discuss the possibility of constructing computers using anal-  
ogic elements and consider the fundamentals in the theory of logical  
elements. They also discuss problems of programming and expand the operation  
of analog computers and their elements. Brief discussion of mathematical  
instruments is also presented. In articles were presented at a computer sym-  
posium held in Moscow in 1957. The author is P. E. Dzerzhinsky. The editor is  
P. E. Dzerzhinsky. The publisher is Naukova-Tekhnicheskaya Pressa Izdatel-  
stvo Akademii Nauk SSSR, Moscow, 1959. Some personalities are mentioned. References  
appear at the end of some articles.

Sobchakov, O. I. Power Supply for Electronic Computers  
The author discusses power supply systems of electronic computers and  
describes methods of constructing protective and signalling circuits.  
There are 10 references; 7 Soviet and 3 English.

Dzerzhinsky, I. A. Candidate of Technical Sciences. Some Problems in the  
Design of Special High-speed Computers. Some Problems in the  
Design of Special High-speed Computers. The author discusses the operation of parallel, series and serial parallel  
digital computers and their components. He considers requirements  
of computers and discusses methods of preparing programs. There are no  
references.

Dzerzhinsky, I. A., Professor, Doctor of Physical and Mathematical Sciences, and E. I.  
Trifanov, Candidate of Technical Sciences. Fundamentals of the Theory of Logical Circuits.  
The authors consider problems of analysis and synthesis of logical  
elements in computers. They describe methods of transforming and coding  
information and circuits used. There are no references.

KHETAGUROV, Ya.A., kand.tekhn.nauk, otv.red.; POPOVA, S.M., tekhn.red.

[Computer engineering] Vuchislitel'naja tekhnika; sbornik statei.  
Moskva, Izd-vo Glav.upr. po ispol'zovaniyu atomnoi energii pri  
Sovete Ministrov SSSR, 1960. : 54 p. (MIRA 13:12)

1. Moscow. Inzhenerno-fizicheskiy institut.  
(Electronic calculating machines)

*KHETAGUROV, YA A.*

		FILE 1 FOR INFORMATION	SD/1651
		BUREAU - INSTITUTE OF COMPUTER TECHNOLOGY	
		Institute of Computer Technology, Bureau of Technical Information (Computing Techniques) Collection of Scientific Reports, Institute, Institute, 1960. 1-3. 2,500 copies printed. Scientific Research Institute of Electronic Specialized Instruments (SRI), Ministry of Communications-Electronics Industry.	
		<b>Report No. 1.</b> Report by Dr. R. Kh. Khetagurov, Candidate of Technical Sciences; Tech. Ed.; Eng. Popov. <b>Purpose:</b> This collection of reports is intended for technical personnel working with computers.	
		<b>Content:</b> The collection contains reports dealing with some problems of computer technology. The reports of J.O. Arzengen, V.I. Zverev, and G.M. Solov'yev discuss various problems concerning a general-purpose discrete-action computer which was designed and is presently under construction at the KTRI. Noteworthy among these is particularly Institute (Moscow Engineering Physics Institute). The reports of T.S. Khetagurov, I.M. Vinogradov, and T.S. Mikhlin contain other problems of computer design. There are no refences.	
		<b>References:</b> Each report has its own reference section.	
		The author notes that there are difficulties permitting a reduction in the time of multiplication operations which use only one multiplier column. The report analyzes these circuits in detail.	
		<b>Author's Note:</b> Problem of a Servomechanism in a Digital Differential Analyzer.	
		The author discusses the possibility of using a conventional integrator in a servomechanism as digital differential analyzer and includes two examples of its operation.	
		<b>Availability:</b> Library of Congress	
CONT'D			
		2/16/61	

KHETAGUROV, Ya.A.

Consideration of the operational reliability in the design of  
arithmetical devices. Vych. tekhn. no.3:52-60 '62. (MIRA 15:6)  
(Electronic digital computers)

KHETAGUROV, Ya.A.

Certain problems concerning the evaluation of a channel of  
magnetic recording and reading. Vych. tekhn. no.2:3-7 '61.

(MIRA 15:3)

(Magnetic memory (Calculating machines))

KHETAGUROV, Ya.A.

Circuit for decreasing the time of multiplication operations.  
Vych. tekhn. no.1:48-52 '60. (MIRA 15:3)  
(Electronic calculating machines)

L 17969-63

EWT(d)/FCC(w)/BDS ASD/ESD-3/APCC/IJP(C) Pg-4/Pk-4/

Po-4/Pq-4 CG

ACCESSION NR: AT3002078

S/2745/61/000/002/0003/0007

74

AUTHOR: Khetagurov, Ya. A.

TITLE: Problems of the evaluation of the magnetic recording-readout-track.

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Vychislitel'naya tekhnika, no. 2, 1961, 3-7

TOPIC TAGS: magnetic memory, maximum recording density, memory nonsaturation recording, memory saturation recording, magnetic saturation measurement

ABSTRACT: This paper deals with the theoretical estimation of the maximal attainable recording density or the number of pulses that can be recorded per mm of the circumference of a magnetic memory drum. The two possible methods of discrete pulse recording are shown, namely, (1) that in which the carrier material is brought to saturation at the upper and lower level, and (2) that in which the carrier material is not brought to saturation. It is shown that the characteristics of the carrier and the method of recording exert a substantial influence on the recording density attainable. For example, in the recording system (+1, -1) for the code 0 and 1, it is shown that the attainment of saturation is necessary since, when a

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L 17969-63

ACCESSION NR: AT3002078

point bearing a given unsaturated code signal receives a like code signal, the magnetization would be increased, and, upon a third recording of an opposite code signal, the sum of the first and second magnetizations might not be completely erased and a spurious signal would remain. Thus, in the (+1, -1) system of recording the carrier material must be brought to saturation, and the recording density in this instance would be essentially determined by the characteristics of the material. In the other recording system (0, +1 and 0, -1), which are based on recording without bringing the carrier material to saturation, since only one of the two codes is written from the negative or positive saturation level, a significantly greater pulse-recording density can be achieved. However, the utilization of such a recording method requires a special preparatory operation to condition the carrier for recording. Thus, it appears very important to determine what recording density can be obtained with the different methods and systems of pulse recording on a magnetic drum. Here it becomes necessary to determine the ratio between the recording current, the recording density, the readout signal, and the characteristics of the magnetic carrier surface. The paper proposes the application of a method which employs a single pulse which is recording statically, that is, on a stationary drum. The magnitude of the recorded pulse is selected so that, in a magnetic polarity-reversal process, the carrier material is brought to saturation dependably. The achievement of saturation in the carrier during pulse recording

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ACCESSION NR: AT3002078

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can be characterized by a change in the relationship between the readout signal and the recording current. An analysis of this relationship is accomplished by an approximation of the law of the magnetic flux in such a manner, that its derivative provides a signal of a form that can be taken from the readout pickup. The recording density, under saturation of the carrier, will be determined by the permissible overlap of the fields of the dipoles. The permissible overlap can be obtained from the condition of the drop of the amplitude of the readout signal in comparison with the amplitude of the single static signal, for a given unchanged recording current. In addition to the determination of the permissible recording density thus achieved, the present method is suitable for a comparison and evaluation of the effect of various parameters of the recording-readout track on the recording density and amplitude.

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 30Apr63

ENCL: X00

SUB CODE: CP, EE

NO REF SOV: 00

OTHER: X00

Card 3/3

ZHILKIN, D.S.; KHETAGUROV, Ya.A.

Some problems concerning apparatus and logic control of the networks  
of electronic computers. Vych. tekhn. no.4:79-97 '62. (MIRA 16:6)  
(Electronic computers)

KHETAGUROV, Ya.A.

Memory device using a magnetic drum. Avtom. upr. i vych. tekhn.  
no.5:318-355 '62. (MIRA 15:9)  
(Magnetic memory (Calculating machines))  
(Information storage and retrieval systems)

KHETAGUROV, YA. A.

3/745/62/000/003/003/004

AUTHOR: Ya. A. Khetagurov

TITLE: On the design of arithmetic units with allowance for operating reliability

SOURCE: Moscow. Inzheenerno-fizicheskiy institut. Vychislitel'naya tekhnika. no. 3. 1962. 52-60.

TEXT: An analytic relation is established between the operating reliability of an arithmetic unit, based on an exponential distribution of fault-free operation, and the volume and operating speed of the unit. It is emphasized that the presently used analysis of logical circuits by Boolean algebra defines them only with respect to the performance of the imposed logical task, but not with respect to reliability. Units are compared on the basis of the reliability values obtained within the time intervals required for the performance of the operations. The design procedure based on these considerations is divided into two stages. One consists of determining the time needed for the addition and multiplication operations as well as the choice of the multiplication method, along with the relative reliabilities of the operation and a coefficient based

Card 1/2

On the design of arithmetic units...

S/745/62/000/003/003/004

on the ratio of the short to long commands. In the other stage, data on the time of performance of the summation operation and on its relative reliability are used to determine the principal parameters of the adder and the choice of its circuitry. Generalized systems of equations are written for the relations between the relative reliabilities and the main characteristics of the adder (addition time, multiplication time, relative addition reliability). Analysis of these equations makes it possible to take into account the characteristics of the electronic apparatus used (number of amplifiers, diodes, triodes, and flip-flops per digit, frequency of failure of each of these elements) and their relation to the operating time of the memory cell.

Card 2/2

ACCESSION NR: AT3012132

S/2967/63/000/000/0157/0164

AUTHORS: Khetagurov, Ya. A.; Popov, Yu. A.; Iyubentsov, V. M.

TITLE: Matrix multiplication machine

SOURCE: Voprosy\* vy\*chislitel'noy matematiki i vy\*chislitel'noy tekhniki. Moscow, 1963, 157-164

TOPIC TAGS: matrix multiplication, calculating machine, multiplicand, partial product, summator, diode, pulse circuit, synchronizer, diode transformer T/6

ABSTRACT: Several different machines operating as matrix instruments for high-speed multiplication have been considered. Such a machine should contain  $m$  series with  $m + 1$  summators in each. On each series with output summator of preceding series, the preceding partial product sum is transmitted and shifted into a corresponding multiplicand form. The multiplicand is added to this partial product sum only if the corresponding digit in the multiplier is "1". An improved signal transfer scheme is proposed, with signals transmitted from one series to another. For an  $m$ -digit number multiplication, this is shown to require  $m-1$  summator series; for two digit multiplication  $m/2-1$  summator series are required. A two 13-digit multiplication scheme used at Moskovskiy inzhenerno-fizicheskiy institut (Moscow

Card 1/3

ACCESSION NR: AT3012132

Engineering Physics Institute) is described. This scheme calls for 870 summators. The circuit of this functional summator composed of diode-transformer ( $\pi$ 6) pulse circuits is discussed. The work is synchronized by pulse feed summator "un" (see Fig. 1 on the Enclosure). The working speed of the calculator for a 13-digit number multiplication is 60-70 thousand multiplications per second. Orig. art. has: 7 figures.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 22Oct63

ENCL: 01

SUB CODE: DP

NO REF Sov: 000

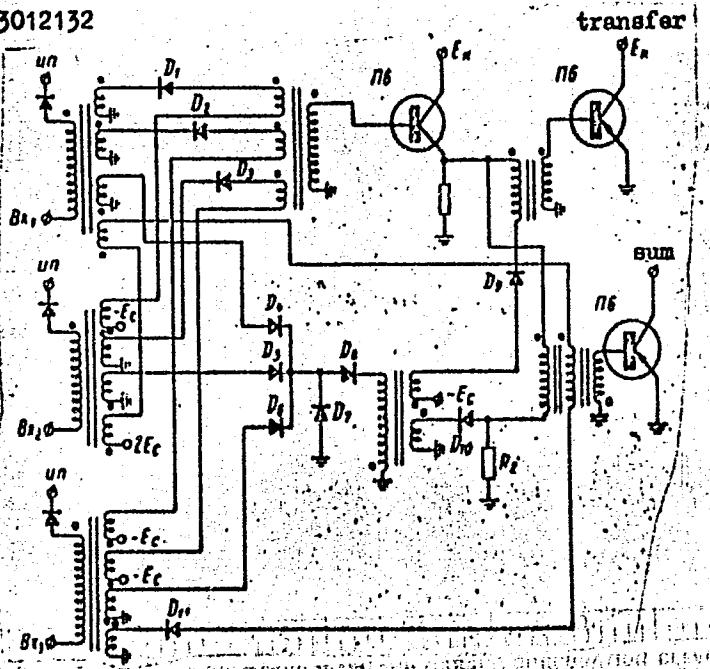
OTHER: 000

Card 2/3

ACCESSION NR: AT3012132

ENCLOSURE : 01

Fig. 1.



Card 3/3

L 25744-65 EWT(4)/EMP(1)/RED-2 Po-4/Pq-4/Pg-4/Ak-4 LTP(e) BB/00

ITEM NR: AP5002087

S/0146/64/007/006/0048/0051

Igorov, Yu. A., Sumarokov, L. N., Svetlakov, V. A.

TITLE: Matrix methods of speeding-up arithmetical operations in a digital

IVUZ. Priborostroyeniye, v. 7, no. 6, 1964, 48-53

ABSTRACT: digital computer, arithmetical operations

Two matrix methods for speeding-up the multiplication operation are

described in which the amount of equipment is proportional to the square of the number of digits  $m$  of the cofactors. The first method -- a modification of the  $n \times n$  method -- includes a "complete" matrix of all functional adders. The amount of equipment required can be determined by counting the adders that receive only one signal and the adders that receive the lower-order  $m-k$  digits of the  $2m-k$  digits comprising the number.

L-25744-65

ACCESSION NR: AP5002087

of buffer digits required to round off the product) and (b) using improved logical circuits. This method also permits the summation of numbers. The second method -- a modification of the first -- is based on conversion of the multirow product code into a two-row code, and then -- by means of a parallel adder -- into a code. Formulas for determining the amount of equipment are given. The article has: 3 figures and 18 formulas.

ASSOCIATION "Moskovskyi inzhenerno-fizicheskiy institut" (Moscow Engineering Institute)

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010005-4

SUBMITTED: 10 Mar 64

ENCL: 00

NP

NO REF Sov: 003

CLASS: 1

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010005-4"

KHETAGUROVA, F. V.

GOLOVKIN, Nikolay Alekseyevich, doktor tekhnicheskikh nauk, professor;  
CHIZHOV, Georgiy Borisovich, professor, doktor tekhnicheskikh  
nauk; SHKOL'NIKOVA, Yelizaveta Fedorovna, kandidat tekhnicheskikh  
nauk; SHCHEKOTOV, P.A., redaktor; MARKH,A.T., professor, retsenzent;  
KHETAGUROVA, F.V., professor, retsenzent; KHRISTODULO,D.A., professor,  
retsenzent; HABIN,F.P., dotsent, retsenzent; IL'CHENKO,S.G., dotsent,  
retsenzent; CHOGOVADZE,Sh.K., dotsent, retsenzent; ROSLOV,G.I.,  
tekhnicheskiy redaktor

[Technology of refrigerating food products] Kholodil'naya tekhnologiya pishchevykh produktov. Moskva, Gos.izd-vo torgovoii lit-ry. 1955. 375 p.

(MIRA 9:3)

(Food--Preservation) (Refrigeration and refrigerating machinery)

KHETAGUROVA, F.V.

USSR / Plant Diseases. Diseases of Cultivated Plants

N-3

Abs Jour : Ref Zhur - Biol., No 6, March 1957, No 22979

Author : Khetagurova, F.V.

Title : Damage to Flax Fibers by Microorganisms.

Orig Pub : Sb. rabot In-ta prikl. zool. i fitopatol., 1956, No 4, 206-  
224

Abstract : The study is devoted to investigation of causes diminishing flax fiber durability. Observation has shown that fibers which have poor technical qualities suffer a disruption of normal structure caused by microorganisms. Tests were conducted by artificial infection of undamaged fibers with bacterial cultures isolated from damaged ones. The basic causes of fiber damage are the epiphytic bacteria of the flax plant. In external appearance the damage to flax fibers by the microorganisms is divided into 4 types: 1) fiber thickening and swelling, 2) fiber stratification, 3) fiber cracking, 4) destruction and enmeshing of the fiber with fungus. Microphotographs of different fiber damage types are shown. Standards for determining the degree of damage of flax fibers for production purposes are established, based on external fiber changes. Representing the chief microflora

Card : 1/2

USSR / APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010005  
N-3

Abs Jour : Ref Zhur - Biol., No 6, March 1957, No 22979

which are destructive to fibers, 3 types of bacteria were determined: Pseudomonas herbicola Dug., Pseudomonas fluorescens Mig. and Bacillus subtilis Fl. These bacteria are present on flax at all stages of development and manifest no signs of viability until the end of flowering. During the period of milky ripeness a darkening of the stem is noted, caused by bacteria which severely damage fibers up to the time of retting. To improve fiber quality the creation of favorable cultivation, harvesting and storage conditions is necessary.

Card : 2/2

ARISTOVSKAYA, T.V.; VLADIMIRSKAYA, M.Ye.; GOLBERBAKH, M.M.; KATANSKAYA,  
F.A.; KASHKIN, P.N.; KLUPT, S.Ye.; LOZINA-LOZINSKIY, L.K.; NORIKINA,  
S.P.; RUMYANTSEVA, V.M.; SELIEER, G.L., prof. [deceased]; SKALON,  
I.S.; SKORODUMOVA, A.M.; KHETAGUROVA, F.V.; CHASTUKHIN, V.Ya.;  
PARSADANOVA, K.G., red.; GARINA, T.D., tekhn. red.

[Comprehensive laboratory manual on microbiology] Bol'shoi praktikum po mikrobiologii. [By] T.V. Aristovskaya i dr. Pod obshchiei  
red. G.L.Selibera. Moskva, Vysshiaia shkola, 1962. 490 p.

(MIRA 16:3)

(MICROBIOLOGY—LABORATORY MANUALS)

BLAGNIK, Roman[Blahnik, Roman]; ZANOVA, Valeriya [Zanova, Valerie];  
KHETAGUROVA, F.V., prof., red.

[Microbiological corrosion. Translated from the Czech]  
Mikrobiologicheskia korroziia. Moskva, Khimiia, 1965.  
221 p. (MIRA 18:10)

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722010005-4

KHETAGUROVA, M. G.

KHETAGUROVA, M. G. -- "INVESTIGATION OF THE PROCESS OF FRACTIONAL DISTILLATION OF COAL TAR AND FRACTIONS." SUB 13 MAR 52, MOSCOW INST OF CHEMICAL MACHINE BUILDING  
(DISSERTATION FOR THE DEGREE OF CANDIDATE IN TECHNICAL SCIENCES)

SO: VECHERNAYA MOSKVA, JANUARY-DECEMBER 1952

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722010005-4"

MAMONOV, Ye.I., [translator]; SADOVSKIY, L.Ye.,[translator]; KHETAGUROVA, Ya.A.[translator]; SHESTAKOV, V.I., redaktor.

[Synthesis of electronic computing and control circuits] Sintez elektronnykh vychislitel'nykh i upravliaiushchikh skhem. Perevod s angliiskogo E.I.Mamonova, L.E.Sadovskogo i I.A.Khetagurova. Pod red. V.I.Shestakova. Moskva. Izd-vo inostrannoi lit-ry, 1954. (MLRA 7:8)

357 p.

(Electronic calculating machines)

ABATUROV, A.I.; VINOGRADOV, M.A.; DUBROVA, G.B.; LOTOREV, L.M.; ZORIN, S.N.;  
VASIL'YEV, A.A.; VOLOKITIN, A.S.; BUKOVETSKIY, A.I.; PEMAZKOV, N.S.;  
MEZENTSEV, P.V.; YEGORIKIN, N.I.; DANILOV, M.M.; LUKASHEV, M.Ya.;  
MEYEROVICH, I.L.; KLYUCHEV, A.Ye.; SARYCHEV, V.G.; ZAVILOVICH, M.A.;  
NOVOSEL'SKIY, N.M.; GITLITS, S.A.; REZNICHENKO, M.S.; MOROZ, L.P.;  
KHETAGUROVA, E.V.; CHOGOVADEZ, Sh.K.; RYBCHENKO, A.A.; BOCHAROVA, N.P.;  
GAGLOYEVA, N.A.; KRYUKOVA, T.B.

Rubinshtein, Grigorii Leonidovich; 1891-1959. Sov. torg. 33 no.12:56  
(MIRA 13:2)  
D '59.

(Rubinshtein, Grigorii Leonidovich, 1891-1959)

KHMETAYAUROV, O. G.

25942

Raschyet Izolyatsionnykh konstruktsain ryefrizhyeratornykh tryumov myetodom  
elyektro-tyeplovtkh analogiy. Trudy Lyeningr. In-ta inzhyenyerov vod. trans-  
porta, vyp. 15, 1949, v. 81-96.

6. Voedushnyi transport. Aviaatsiya. Voedukhoplavaniye

SO: Letopis' No. 34

KHETCHIKOV, L. N.

Meteorites

Large bolide of September 14, 1950 over Maritime Territory. Meteoritika, No. 9, 1951.

9. Monthly List of Russian Accessions, Library of Congress, June 1951, Uncl.  
52

15-1957-3-3064

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 3,  
p 90 (USSR)

AUTHORS: Khetchikov, L. N., Tumilovich, L. B.

TITLE: The Colloidal Origin of a Mineral of the Amphibole  
Group (Mineral iz gruppy amfibolov kolloidnogo  
proiskhozhdeniya)

PERIODICAL: Soobshch. Dal'nevost. fil. AN SSSR, 1955, Nr 8,  
pp 37-40

ABSTRACT: Coatings of felt-like mineral masses were discovered  
in open cavities on druses of quartz and ilvaite  
crystals in skarn-polymetal deposits. The ore  
bodies of these deposits occur at the contacts  
between limestones and thick, crosscutting, porphyrite  
dikes. The matted mass grades in places into a  
gel-like mass. When this material is poured out  
a laminated mass forms, with a matted structure and

Card 1/2

15-1957-3-3039

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 3,  
p 85 (USSR)

AUTHOR: Khetchikov, L. N.

TITLE: Crystals of Red Quartz (O kristallakh krasnogo  
kvartsa)

PERIODICAL: Soobshch. Dal'nevost. fil. AN SSSR, 1955, № 8,  
pp 63-65

ABSTRACT: Druses containing crystals of red quartz are often encountered in residual open cavities in one of the skarn-polymetal deposits of the Far East. They occur in various forms and sizes. The earliest segregations are fine-grained masses of quartz, attaching themselves in the form of complex borders on the surface of hedenbergite aggregates. On this border, as a rule, druses of prismatic crystals of colorless, white, or pale violet quartz have

Card 1/2

15-1957-3-3039

Crystals of Red Quartz (Cont.)

developed. With the quartz there may almost always be found large prismatic crystals of ilvaite, which formed earlier than the quartz. The crystals of this mineral are cemented by later quartz and milky white chalcedony. The earlier quartz crystals range in length from a few millimeters to 2 to 3 cm. They show a zonal structure in cross section, the individual zones of which vary considerably in width. Individual bands are uniformly colored throughout their entire length. Under the microscope a large number of hematite needles was detected within the quartz crystals. Spectral analysis has shown that the reddish quartz crystals are distinguished from the colorless varieties only by the higher content of Fe. The red color of the quartz is probably explained by the presence of hematite. The reddish quartz characteristically occurs in those cavities with walls composed of strongly altered hedenbergite and garnet.

G.A.G.

Card 2/2

15-57-4-4606

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4,  
p 88 (USSR)

AUTHOR: Khetchikov, L. N.

TITLE: Ilvaita in Lead-Zinc Skarn Deposits (Ob il'vaita  
skarnovo-polimetallicheskikh mestorozhdeniy)

PERIODICAL: Mineralog. sb. L'vovsk. geol. o-vo pri un-te, 1956,  
Nr 10, pp 298-304.

ABSTRACT: The author examines ilvaita from one of the Primor'ye  
deposits. The ore body is pipe-like and extends along  
the contact of limestone and a thick porphyrite dike  
and along the contact of limestone and quartz-feldspar  
sandstone. The ore contains three generations of ilvaita.  
The most widely distributed is the ilvaita of the first  
generation, which is associated with hedenbergite. This  
variety occurs in fine-grained, rarely coarse-grained,  
aggregates of massive structure. Crystals with well-  
developed faces are generally absent. Large (up to 5  
cm) prismatic crystals are found in numerous exposed

Card 1/3

15-57-4-4606

## Ilvaite in Lead-Zinc Skarn Deposits (Cont.)

cavities. The most common simple forms in these crystals are the prisms (110) and (101). The prism (120) and the bipyramid (111) are less common. The color of the ilvaite is pitch black; its streak is brownish-black, and the hardness is 5. In pleochroism, Np is brownish-red, and Ng is dark brown to almost black. As a rule, the second generation ilvaite forms thin, branching monomineralic veins, which cut the skarns and sulfides of the first stage of mineralization. In exposed cavities, crystals of second-generation ilvaite are found on first-generation ilvaite, on quartz and sulfides, and rarely on rhombohedral calcite. The chemical compositions of first- and second-generation ilvaite are, respectively (in percent), SiO<sub>2</sub> 22.6 and 28.92, Fe<sub>2</sub>O<sub>3</sub> 19.09 and 18.85, FeO 26.29 and 26.06, MnO 9.11 and 11.90, CaO 12.66 and 12.52, MgO 0.51 and 0.36, H<sub>2</sub>O 2.54 and 2.45; total 99.80 and 100.06. The formulas for the mineral are 2(CaMg)0·4·1·(FeMn)0·Fe<sub>2</sub>O<sub>3</sub>·4·1SiO<sub>2</sub>·H<sub>2</sub>O and 2(CaMg)0·4·5(FeMn)0·Fe<sub>2</sub>O<sub>3</sub>·4SiO<sub>2</sub>·H<sub>2</sub>O. Third-generation ilvaite is more widespread than the second-generation variety. It is found in late veins of manganiferous calcite together with quartz, chalcedony, pyrite, and other minerals. Locally it forms monomineralic branching

Card 2/3

15-57-4-4606

Ilvaite in Lead-Zinc Skarn Deposits (Cont.)

veinlets less than 1 mm in width. In exposed cavities, this ilvaite forms small (up to 1 mm) prismatic crystals on "dipyramidal" quartz, earlier ilvaite, and scalenohedrons of calcite. The author believes that ilvaite cannot be considered characteristic only of the early stages of skarn formation. In places it appears to have been formed in the ores over a long period of time at different temperatures and in various associations.

G. A. G.

Card 3/3

KHETCHIKOV, L.N.

P.2

22(1)

PHASE I BOOK EXPLOITATION

SOV/3138

Akademiya nauk SSSR. Dal'nevostochnyy filial imeni V.L. Komarova

Nauka na Dal'nem Vostoche (Science in the Far East) Vladivostok, 1957. 111 p.  
1,000 copies printed.

Editorial Committee: Ye.A. Boom, V.T. Bykov (Resp. Ed.), D.V. Girnik,  
A.V. Stotsenko (Deputy Resp. Ed.), Z.G. Onisimova, A.A. Tavid,  
P.D. Yaroshenko; Tech. Ed.: L. Kalashnikov

PURPOSE: This collection of articles is intended for the general reader interested in the status of scientific studies and research in the Soviet Far East.

COVERAGE: These articles review scientific achievements which have contributed to the economic development of the Soviet Far East. The creation of the first university in the Far East and of the Far East Branch of the Academy of Science is discussed. Studies in the history, geology, geophysics, chemistry, biology, and economics of the region are discussed and a great number of scientists and their contributions mentioned. Stress is laid on the progress of the geological survey carried out in the southern part of the Far East and the consequent

Card 1/3

Science in the Far East

SOV/3138

discovery of coal, silver, lead, gold and petroleum. In addition to studies of the subsurface wealth, works on the vegetation and forest are also presented. Numerous references are incorporated in the text.

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Khetchikov, L.N. Geological Survey in the Southern Part of the Far East During the Thirty Five Years of Soviet Rule	7
Ozhigov, Ye.P. Development of Chemical Studies in the Far East	21
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Card 2/3

Science in the Far East

SOV/3138

Belikov, I.F., and V.A. Tyrina. From the History of the Study of the  
Biochemistry and Physiology of Plants Growing in the Primorskiy Kray

71

Kurentsov, A.I. Results of Zoological Studies in the Far East During  
the Last Forty Years

79

Tonashhevskiy, V.V. Historical Sciences in the Soviet Far East

89

AVAILABLE: Library of Congress (Q180.R9A55)

Card 3/3

TM/gmp  
2-24-60

KHETCHIKOV, L.N.

Presence of bismuth in galenite. Soob.DVFAN SSSR no.9:133-136  
'58. (MIRA 12:4)

(Galena) (Bismuth)

KHETCHIKOV, L.N.; KONSTANTINOV, R.M.

Distribution of zinc, lead, and copper in enclosing rocks of tin  
deposits in the Far East. Geol. rud. mestorozh. no. 4:127-133  
Jl-Ag '59. (MIRA 13:1)

1. Dal'nnevostochnyy filial Sibirskego otdeleniya AN SSSR, Vladivostok  
i Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii  
i geokhimii AN SSSR, Moskva.  
(Soviet Far East--Ore deposits)

Khetcikov, L. N.

## PHASE I BOOK EXPLOITATION

SOV/2464

3(1)

Akademiya nauk SSSR. Komitet po meteoritam

Sikhote-Alinskiy zheleznyy meteoritnyy dozhd', tom 1 (Sikhote-Alin' Iron Meteorite Shower, Vol 1) Moscow, Izd-vo AN SSSR, 1959. 363 p. 1,200 copies printed.

Resp. Ed.: V. G. Fesenkov; Deputy Resp. Ed.: Ye. L. Krinov; Ed. of Publishing House: I. Ye. Rakhlin; Tech. Ed.: G. N. Shevchenko.

PURPOSE: This book is intended for earth scientists, and astronomers interested in meteorite phenomena.

COVERAGE: The collection of articles is the first of three volumes devoted to a study of the Sikhote-Alin' iron meteorite shower which fell on February 12, 1947. Individual articles discuss the location of the fall, the types of craters formed by the impact, and the mineral composition of the meteorite fragments. Information presented in this series, including eyewitness reports, was obtained by members of the AN SSSR

Card 1/3

Sikhote-Alin' Iron Meteorite Shower, Vol 1 SOV/2464

Krinov, Ye. L., and S. S. Fonton. Description of Meteorite Craters, Pitting Places, Locations of the Fall of Small Individual Pieces of Surface Dispersion 157

Sarybatyrov, S. O. The Form and Characteristic Peculiarities of Meteorite Shower Craters Based on Aerial Photography 304

Fontev, S. S. Use of the Magnetic Method to Locate Meteorites and Their Fragments 312

Krinov, Ye. L. Catalog of the Parts of a Meteorite Shower 322

AVAILABLE: Library of Congress

MM/jb  
10-21-59

Card 3/3

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722010005-4

KHETCHIKOV, L. N.

Relationship between skarns and sulfides in the Pervoye Sovetskoye  
deposit (southern Maritime Territory). Trudy IGEM no.18:22-29  
'59. (MIRA 12:10)  
(Tetyukhe Valley--Sulfides) (Tetyukhe Valley--Skarn)

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722010005-4"

8 5210

S/035/60/000/010/017/021  
A001/A001

3.9000(1041,1109,1327)

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1960, No. 10,  
p. 88, # 10357AUTHORS: Shipulin, F. K., Khetchikov, L. N.TITLE: Geographic-Geological Characteristic of the Location of a Meteorite  
ShowerPERIODICAL: V sb.: Sikhote-Alinsk. zhelezn. meteoritn. dozhd'. Vol 1, Moscow,  
AN SSSR, 1959, pp. 19-25

TEXT: The site of Sikhote-Alin' meteorite shower fall is located within the boundaries of the western spurs of the Sikhote-Alin' range, in 75 km to north-east of the town of Iman. In the geological structure of the region take part, in addition to recent loose deposits, only effusive rocks and volcanic tuffs. Effusives are represented by quartz-free porphyries and albitophyres. Similar rocks in other regions reveal a compressive strength of up to 1,600 - 2,000 kg/cm<sup>2</sup>. Tuffs are spread on approximately 80% of the region area. In their mechanical properties tuffs differ only slightly from the effusives of the region.

Card 1/2

85210  
S/035/60/000/010/017/021  
A001/A001

Geographic-Geological Characteristic of the Location of a Meteorite Shower

Compressive strength amounts probably to not less than 800- 1,000 kg/cm<sup>2</sup>. The overburden of recent loose deposits is developed everywhere and attains considerable thickness. Loose deposits are represented by diluvium, eluvium and alluvium. The thickness of eluvial-diluvial cover amounts to 1.5 - 2 m. It is overlaid by a soil layer of up to 0.5 m thickness. At the time of meteorite shower the upper part of the loose deposit cover was frozen down to a depth of 1 m. Such grounds show compressive resistance of up to several dozens of kg per 1 cm<sup>2</sup>.

O. A. Kirova

Translator's note: This is the full translation of the original Russian abstract.

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KHETCHIKOV, L.N.

Some features of structures of ores of the Silina tin and complex  
ore deposit. Soob.DVTFAN SSSR no.10:109-114 '59. (MIRA 13:11)

I. Dal'nevostochnyy filial imeni V.L.Komarova Sibirsogo otdeleniya  
AN SSSR.

(Ol'ga District--Ore deposits)

KHETCHIKOV, L.N.; YEFIMOVA, M.I.

Tourmaline formation in granites from the Cape Brinera area on the  
shores of the Sea of Japan. Socob.DVFAAN SSSR no.10:238-240 '59.  
(MIRA 13:11)

1. Dal'nevostochnyy filial Sibirs'kogo otdeleniya AN SSSR.  
(Brinera, Cape--Tourmaline)

KHETCHIKOV, L.N.

Anisotropic sphalerite from the Kisinskoye deposit. Soob.DVFAK SSSR  
no.10:260-262 '59.  
(MIRA 13:11)

1. Dal'nevostochnyy filial Sibirskego otdeleniya AN SSSR.  
(Maritime Territory--Sphalerite)

KONSTANTINOV, R.M.; AKIMOVA, G.M.; KHETCHIKOV, L.N.; KOROSTELEV, P.G.

Zinc content of rocks from the Tetyukhe skarn-complex ore deposits.  
Soob. DVTFAN SSSR no.10:262-264 '59. (MIRA 13:11)

1. Dal'nevostochnyy politekhnicheskiy institut im. V.V. Kuybysheva
2. Dal'nevostochnyy filial Sibirsogo otdeleniya AN SSSR.  
(Zinc--Analysis) (Tetyukhe Valley--Ore deposits)

KONSTANTINOV, R.M.; KHETCHIKOV, L.N.; SHAKUNOV, V.N.

Organizing geochemical prospecting for complex ore deposits in the Maritime Territory. Soob. DVFAN SSSR no. 12:3-8 '60. (MIRA 13:11)

1. Dal'nevostochnyy filial imeni V.L.Komarova Sibirskogo otdeleniya AN SSSR i Institut geologii rudnykh mestorozhdenii, petrografii, mineralogii i geokhimii AN SSSR.

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Geology and mineralogy of the Pervyy Sovetskiy Rudnik deposit  
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(Tetyukhe Valley--Geology, Economic)

KHETCHIKOV, L.N., kandidat geologo-mineralogicheskikh nauk; KHAN DON SIK,  
kandidat goeologo-mineralogicheskikh nauk

Joint work of Soviet and Korean geologists. Vest.AN SSSR  
30 no.7:64-66 J1 '60. (MIRA 13:7)  
(Far East--Geology)

MARAKUSHEV, A.A.; KHERCHIADOV, L.N.; YEFIMOVA, M.I.; KIM MIN SEB; KIM CHAN  
VON; KIM XHAK DZE

Warwickite and paigeite finds in Pre-Cambrian dolomite marbles of  
North Korea. Dokl.AN SSSR 134 no.1:168-170 S '60. (MIRA 13:8)

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ticheskoy Respubliki. Predstavлено akad. D.S. Korzhinskim.  
(Korea, North--Warwickite)  
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KHETCHIKOV, L.N.; KONSTANTINOV, R.M.

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(Far East—Ore deposits)

KHETCHIKOV, L.N., GARBUZOV, P.S.; GUS'KOVA, A.N.

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"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722010005-4

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otdeleniya AN SSSR, Vladivostok.

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KHETSURIANI, G.I.

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Investigating slits of the infrared solar spectrophotometer and  
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uchastiye: BOGDANOV, I.M., inzh.; LOYKONEN, V.F., inzh.; VOLPYAN,  
B.L., inzh.; DAVIDOVICH, L.N., kand. tekhn. nauk, retsenzent; DENI-  
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HUNGARY/Pharmacology. Toxicology. Antibiotics.

V

Abs Jour: Ref. Zhur. - Biol., No 22, 1958, 103004

Author : Khever, Odon

Inst : -

Title : The Effectiveness of Treatment with Antibiotics  
of the Disease Caused by Pseudomonas Pyocyanea.

Orig Pub: Orv. hetilap., 1958, 99, No. 8-9, 286-288

Abstract: No abstract

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L 2976-66 EWT(1)

IJP(c)

ACCESSION NR: AP5022868

UR/0051/65/019/003/0434/0440  
535.372AUTHOR: Khevshi, Ya.; Kozma, L.

TITLE: The quantum yield of anti-Stokes fluorescence

SOURCE: Optika i spektroskopiya, v. 19, no. 3, 1965, 434-440

TOPIC TAGS: Raman scattering, anti Stokes radiation, Raman spectroscopy, quantum yield fluorescence, fluorescence yield

ABSTRACT: Under the assumption that the quantum fluorescence yield  $n$  is determined by inactive absorption and that both active and inactive absorption decrease exponentially with the frequency  $v$  of the exciting light, it is shown that for the anti-Stokes region

$$n(v) = \frac{B}{C + \exp(v_0-v)},$$

where  $v_0 > v$  is the frequency of the electronic transition and  $B$ ,  $C$ , and  $M$  are constants to be determined from the experimental curve. The frequency  $v_0$  can

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ACCESSION NR: AP5022863		3
be determined from the point at which the absorption curve crosses the fluorescence curve. Experimental measurements of $n(v)$ for nine different substances were in good agreement with the formula. The determination of the constants M, B, and C can be made from only a few experimental points and applied in calculating $n(v)$ in the region for which experimental measurements are difficult to make. It was established that the decrease of $n(\lambda)$ depends not only on the temperature but also on the luminescence centers and solvents. Orig. art. has: 4 formulas, 4 figures, and 2 tables. [CS]		
ASSOCIATION: Universitet im. Iozhefa Atily. Kafedra eksper. fiziki (Iozhefa Atily University. Department of Experimental Physics) 44,55		
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ACC NR: AF7000036

SOURCE CODE: UR/0051/66/021/005/0650/0654

AUTHOR: Kozma, L.; Kheveshi, Ya.-; Nevesi, J.

ORG: Josef Atilla University, Szeged, Dept. of Experimental Physics

TITLE: Concerning the yield of anti-Stokes fluorescence

SOURCE: Optika i spektroskopiya, v. 21, no. 5, 1966, 650-654

TOPIC TAGS: fluorescence spectrum, quantum yield, light absorption, light excitation, temperature dependence

ABSTRACT: This is a continuation of earlier work (Opt. i spektr. v. 19, 434, 1965 and preceding papers) where a formula for the quantum yield of the anti-Stokes fluorescence as a function of the exciting frequency was obtained on the basis of the assumption that the inactive absorption decreases exponentially in the anti-Stokes region. In the present paper the authors compared the yield calculated by means of this formula with new experimental data obtained on a number of organic fluorescent solutions. Eighteen solutions of eleven luminescence substances were investigated. Tables and plots showing the results are included. The experimental results show that the investigated luminescence substances can be subdivided into two groups, depending on the influence of the temperature on the quantum-yield plot against the frequency. The first includes substances in which the yield changes strongly with temperature in the entire anti-Stokes region, and the second contains substances in which the temperature has little effect. The first includes alcohol, glucose, and

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UDC: 535.371